

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P451406

Luminaire Tested: **GALN-SA2B-730-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451406
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7539 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

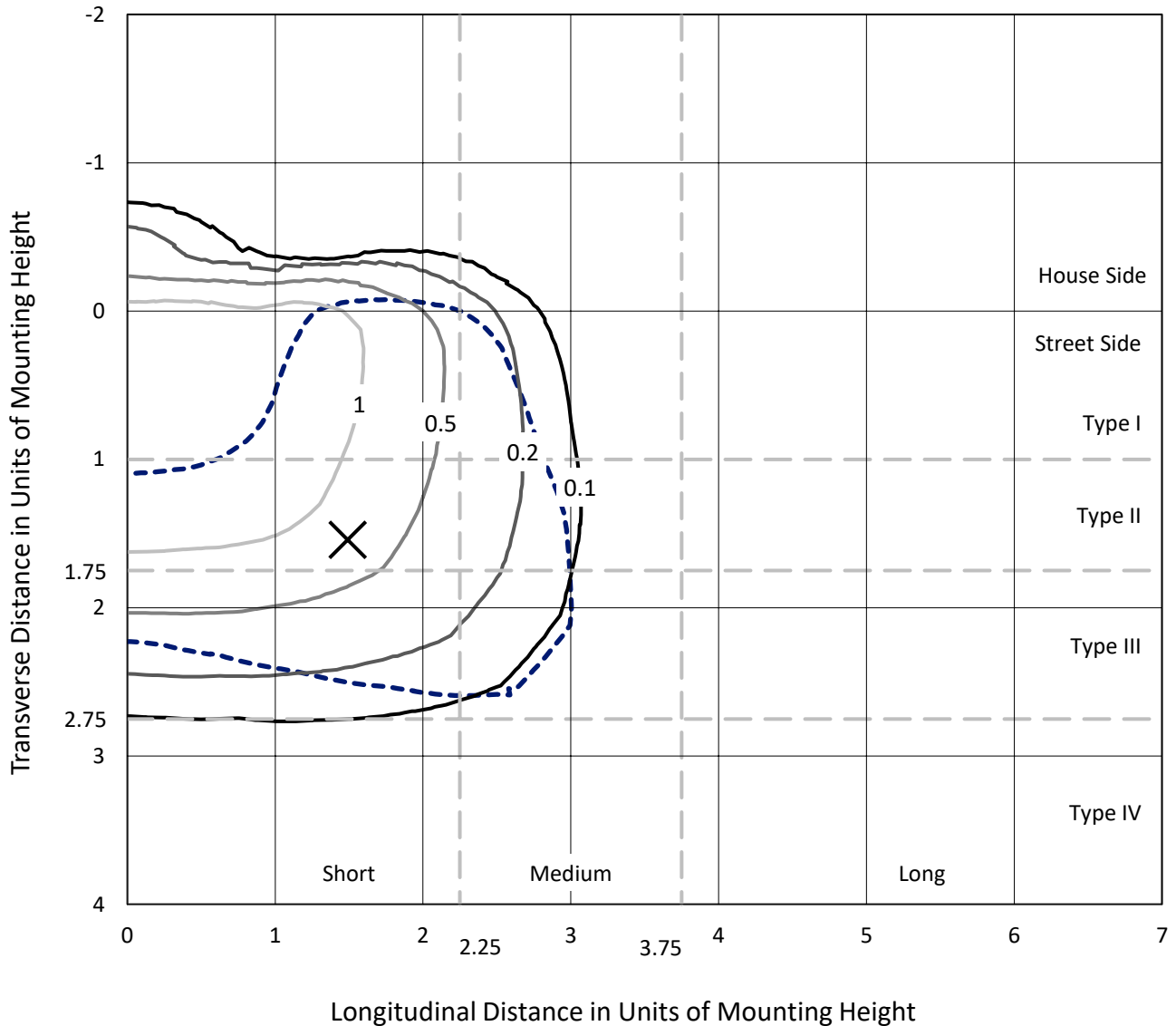
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

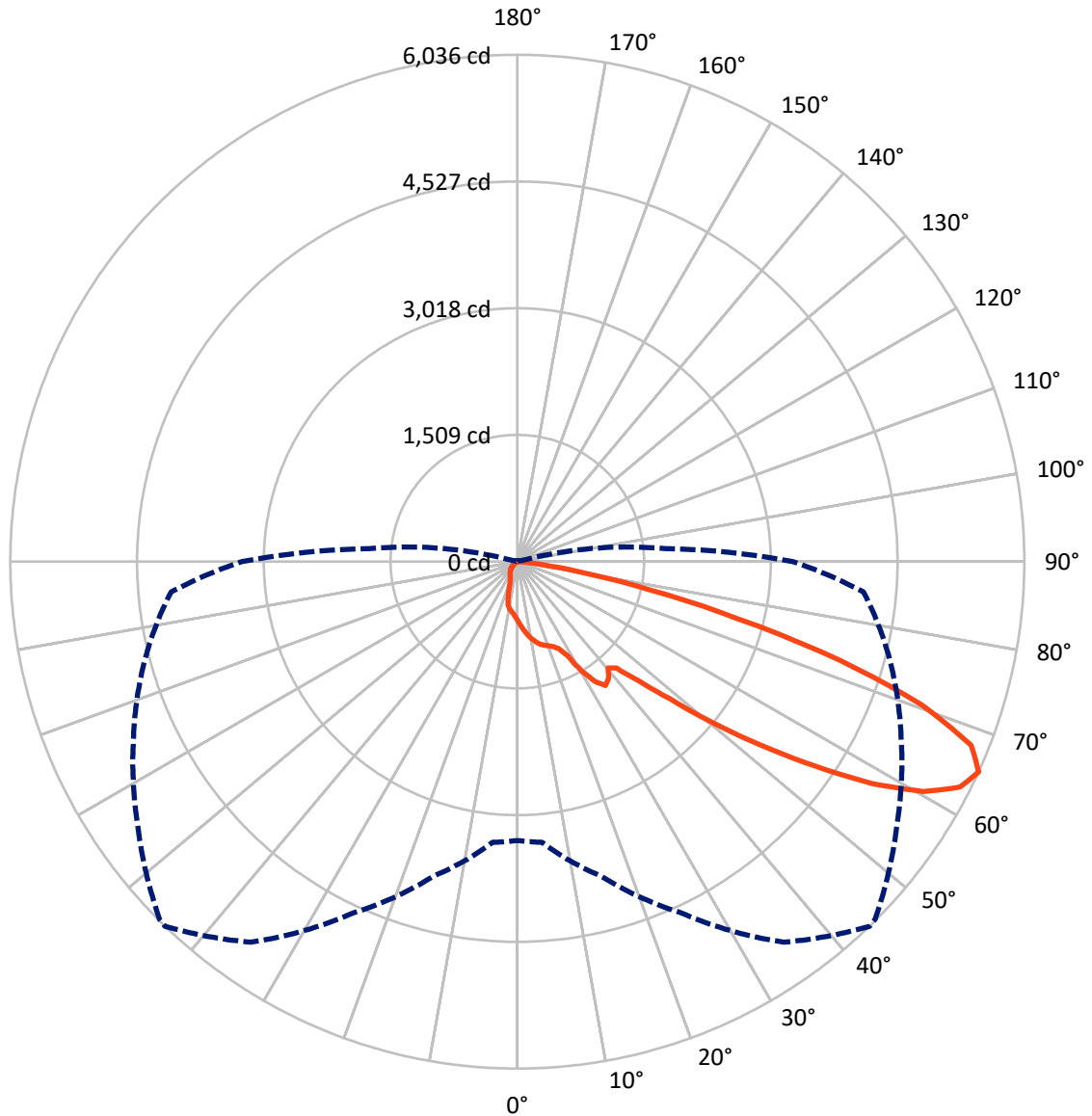
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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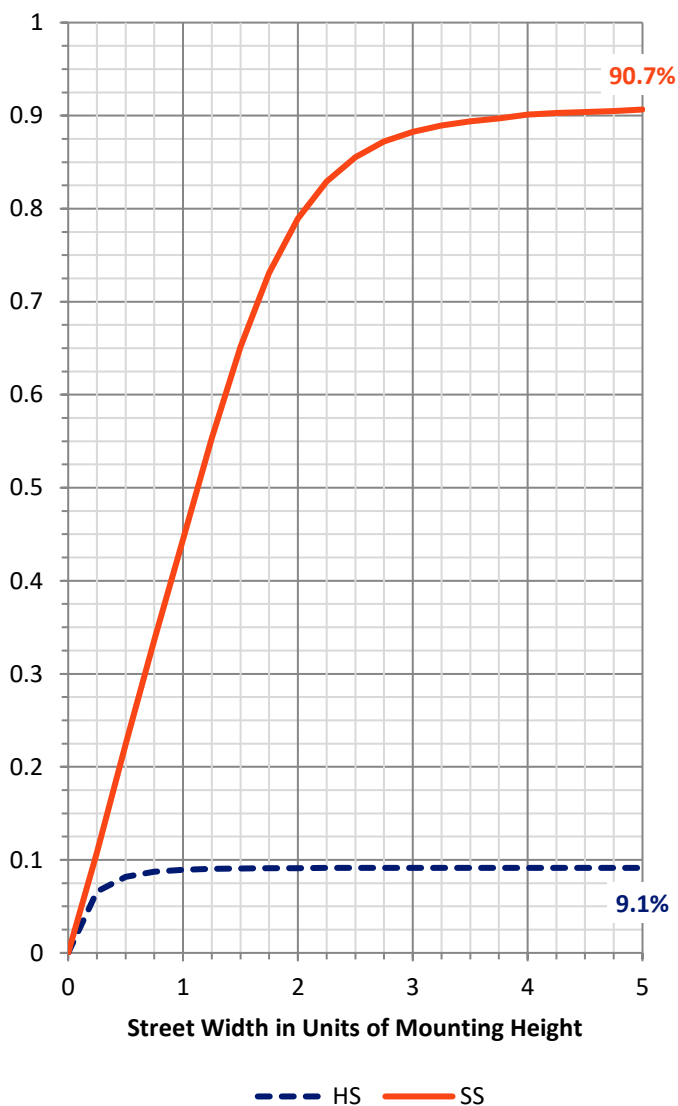
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	694.6	0.0	694.6
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	6844.4	0.0	6844.4
	% Fixture	90.8	0.0	90.8
Total	Lumens	7539.0	0.0	7539.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.8	0.9
10°-20°	210.0	2.8
20°-30°	356.1	4.7
30°-40°	592.2	7.9
40°-50°	1033.9	13.7
50°-60°	2019.9	26.8
60°-70°	2343.5	31.1
70°-80°	853.4	11.3
80°-90°	60.1	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7539.0	100.0
0°-180°	7539.0	100.0

Coefficient of Utilization

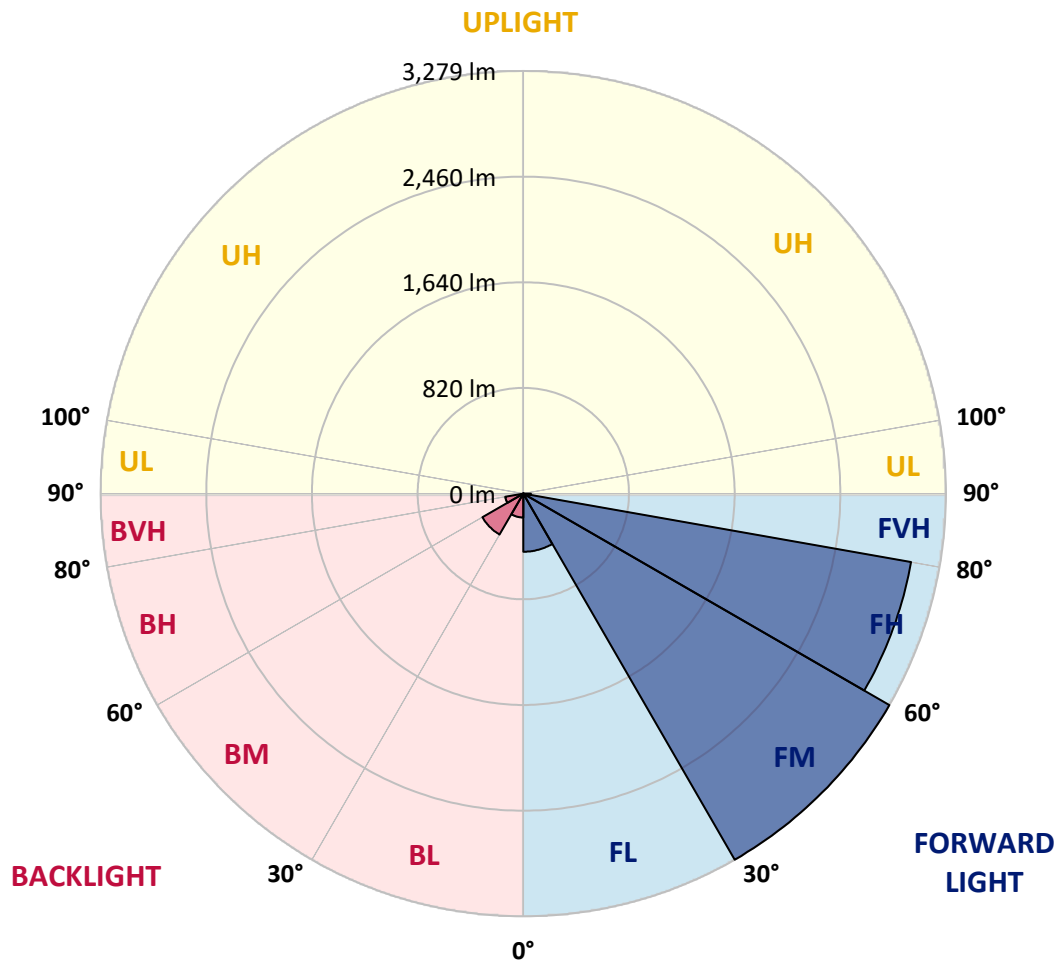


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	450.9	6.0			
FM	(30°-60°)	3279.5	43.5			
FH	(60°-80°)	3054.7	40.5			G2/5000
FVH	(80°-90°)	59.3	0.8			G1/100
BL	(0°-30°)	185.1	2.5	B1/500		
BM	(30°-60°)	366.5	4.9	B1/1000		
BH	(60°-80°)	142.2	1.9	B1/500		G1/500
BVH	(80°-90°)	0.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	701.7	701.7	701.7	701.7	701.7	701.7	701.7	701.7	701.7	701.7	701.7
2.5°	789.8	786.3	784.6	775.4	768.5	759.8	759.8	748.9	736.2	722.4	709.7
5°	877.9	872.2	864.7	856.6	840.5	817.4	817.4	794.4	767.9	744.3	718.4
7.5°	962.6	957.4	944.8	929.2	902.7	878.5	876.8	843.4	811.7	776.0	739.1
10°	1036.9	1032.9	1022.0	992.0	964.3	932.7	932.1	894.6	857.8	814.0	768.5
12.5°	1088.8	1089.4	1075.0	1046.1	1010.4	980.5	978.2	941.3	902.7	855.5	799.6
15°	1125.6	1125.6	1110.7	1078.4	1046.1	1019.6	1017.3	985.1	945.3	894.1	833.6
17.5°	1136.0	1139.5	1123.3	1094.5	1068.6	1045.6	1045.0	1017.9	986.2	936.7	868.1
20°	1132.0	1135.4	1122.8	1100.3	1082.4	1069.2	1067.5	1056.5	1027.1	980.5	905.0
22.5°	1123.3	1126.8	1117.6	1104.3	1095.7	1099.7	1096.8	1106.1	1090.5	1034.0	948.8
25°	1125.1	1128.5	1121.6	1114.1	1121.6	1146.4	1153.9	1193.6	1179.8	1102.0	996.0
27.5°	1179.2	1186.1	1176.3	1179.8	1206.3	1263.9	1278.3	1346.9	1285.8	1188.4	1069.8
30°	1299.6	1295.0	1276.6	1293.3	1385.5	1507.6	1503.5	1492.6	1397.0	1288.1	1157.3
32.5°	1409.1	1405.0	1403.9	1475.9	1643.0	1702.3	1699.4	1593.4	1496.6	1402.2	1243.7
35°	1453.4	1437.9	1434.4	1609.0	1888.4	1810.0	1792.2	1634.9	1617.6	1526.6	1331.9
37.5°	1587.1	1576.1	1522.6	1630.9	1790.4	1764.5	1750.7	1706.3	1746.7	1636.6	1431.5
40°	1862.4	1831.9	1783.5	1677.5	1651.6	1662.5	1676.4	1797.9	1899.3	1787.0	1564.6
42.5°	2204.6	2197.7	2107.8	1910.3	1716.1	1731.1	1749.0	1989.2	2118.8	2013.4	1781.8
45°	2615.4	2625.2	2495.5	2262.2	2007.6	2020.3	2046.2	2271.5	2416.0	2365.4	2123.4
47.5°	2988.7	2981.2	2937.4	2694.9	2459.8	2431.6	2473.7	2633.8	2827.4	2835.4	2547.4
50°	3364.3	3404.0	3338.9	3243.9	3069.3	3010.0	2994.4	3072.8	3367.7	3329.1	3056.6
52.5°	3904.0	3924.8	3802.7	3778.5	3818.2	3625.8	3610.2	3629.3	3893.1	3760.6	3438.0
55°	4243.3	4231.3	4185.7	4374.7	4532.0	4291.7	4272.2	4195.5	4329.2	4065.3	3805.0
57.5°	4350.5	4367.8	4473.8	4815.4	5187.5	4983.6	4947.9	4730.1	4643.7	4349.3	4142.5
60°	4302.7	4334.4	4563.1	5071.2	5587.3	5556.8	5526.3	5160.5	4869.5	4586.7	4379.3
62.5°	3962.2	4006.6	4372.4	5025.7	5722.7	5913.4	5875.4	5428.9	5019.9	4701.9	4420.8
65°	3320.5	3353.3	3878.7	4612.6	5530.3	6035.5	6021.7	5513.0	5043.5	4596.5	4136.8
67.5°	2367.1	2478.8	2965.6	3887.3	4961.1	5827.0	5850.6	5412.2	4821.7	4140.8	3425.9
70°	1488.0	1564.0	1913.1	2783.0	3977.2	5112.1	5189.8	4950.8	4184.6	3227.7	2293.3
72.5°	709.7	766.2	1015.0	1761.6	2807.2	4022.1	4083.8	4064.2	3235.8	2033.5	1183.3
75°	316.3	337.6	484.5	899.2	1812.3	2703.5	2863.1	2889.6	2022.0	994.9	460.3
77.5°	161.3	161.9	227.0	435.5	905.0	1613.0	1644.7	1737.4	1096.3	438.4	160.1
80°	85.8	91.6	120.4	205.7	469.5	794.4	790.4	868.7	486.2	214.9	53.6
82.5°	38.6	42.6	68.0	107.7	229.3	301.3	324.9	355.4	208.5	137.1	23.6
85°	11.5	13.8	33.4	54.2	83.0	87.0	97.4	125.6	118.1	97.4	12.1
87.5°	1.7	1.7	13.8	15.0	12.1	15.6	16.1	17.9	38.0	35.7	6.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	701.7	701.7	701.7	701.7	701.7	701.7	701.7	701.7	701.7	701.7	701.7
2.5°	702.8	698.8	684.4	672.3	661.9	655.6	648.1	643.5	641.2	639.4	640.0
5°	705.7	695.9	671.1	651.5	636.6	620.4	609.5	603.1	600.3	595.7	595.7
7.5°	721.8	706.3	671.7	641.7	615.8	593.9	573.2	565.7	560.5	559.4	558.2
10°	744.9	725.3	678.0	636.6	599.7	569.7	540.4	514.4	494.3	482.2	480.4
12.5°	773.7	745.4	687.8	633.1	585.9	532.9	455.1	402.7	367.5	356.6	358.3
15°	800.2	769.6	697.6	630.2	560.5	441.8	353.7	293.8	275.9	274.2	274.8
17.5°	831.8	795.6	709.1	626.2	490.8	337.6	262.7	246.6	250.0	255.8	255.2
20°	864.7	823.2	723.0	602.0	391.7	254.0	232.2	233.9	239.1	244.3	245.4
22.5°	899.8	854.9	739.1	543.8	299.0	221.2	220.1	222.4	227.5	233.3	234.5
25°	948.2	894.6	751.2	467.8	226.4	204.5	206.8	210.8	215.5	221.8	222.9
27.5°	1010.4	948.2	757.5	368.7	195.9	189.5	190.1	195.9	201.6	207.4	207.4
30°	1091.1	1012.2	744.9	278.8	180.9	175.1	172.8	176.3	183.8	189.5	190.1
32.5°	1163.1	1072.6	711.4	213.1	169.9	161.9	156.1	156.7	159.6	163.0	163.6
35°	1235.1	1131.4	654.4	179.2	158.4	149.2	140.6	136.0	133.6	131.9	133.6
37.5°	1327.3	1204.6	578.4	163.0	148.6	137.1	125.0	115.2	107.1	102.0	103.1
40°	1445.9	1306.0	488.5	152.7	139.4	125.6	109.5	96.8	83.0	78.3	76.0
42.5°	1641.8	1459.8	394.0	144.0	130.2	113.5	93.3	76.0	63.4	58.8	59.9
45°	1951.2	1653.9	303.6	134.8	121.0	100.2	78.3	59.9	49.5	47.2	48.4
47.5°	2361.3	1905.1	233.9	124.4	109.5	85.8	61.6	47.2	40.9	40.3	39.7
50°	2747.3	2139.0	195.3	112.9	95.6	71.4	50.7	39.7	35.7	35.1	35.1
52.5°	3096.4	2306.6	159.0	99.7	80.7	58.8	42.6	35.1	31.7	30.0	30.0
55°	3406.9	2416.0	129.0	83.5	63.4	46.7	36.9	31.7	27.7	25.3	24.8
57.5°	3641.4	2429.3	96.8	66.8	47.2	36.3	31.7	27.7	23.0	20.2	19.0
60°	3741.6	2314.7	71.4	50.7	35.1	28.8	25.3	22.5	17.3	14.4	13.8
62.5°	3640.8	2091.7	53.0	38.6	27.1	21.3	17.9	16.7	12.1	8.6	8.1
65°	3279.6	1769.7	42.1	29.4	20.2	15.6	11.5	10.9	7.5	4.0	3.5
67.5°	2627.5	1386.0	33.4	21.9	14.4	10.4	7.5	6.9	4.0	1.2	1.2
70°	1708.6	886.0	27.1	16.1	9.2	6.9	4.6	3.5	2.3	0.6	0.0
72.5°	845.1	414.2	21.9	12.7	6.3	3.5	1.7	1.2	1.7	0.0	0.0
75°	327.8	147.5	16.1	8.6	3.5	1.7	1.2	0.0	0.6	0.0	0.0
77.5°	108.9	49.0	9.8	4.6	2.3	1.2	0.0	0.0	0.0	0.0	0.0
80°	40.3	19.0	5.2	2.9	1.2	0.6	0.0	0.0	0.0	0.0	0.0
82.5°	16.1	7.5	3.5	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.1	4.6	2.3	1.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.8	3.5	2.3	1.7	1.2	0.6	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)